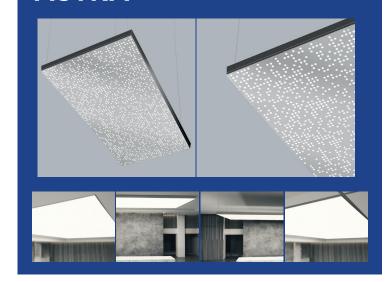




# LumiPano™ Collection ASTRA



Spec by:	
Agency:	
Project Name:	
Type of Project:	
Notes:	

IP22 RATED











## LIGHTING PERFORMANCE\*

	Output	Size				
	Cutput	2' x 2'	2' x 4'	4' x 4'	4' x 6'	4' x 8'
Power consumption (Watts)	Premium	22.4W	50.4W	113.4W	176.4W	252W
Delivered output (Lumens)		1830 lm	4058 lm	9130 lm	14202 lm	20289 lm
Power consumption (Watts)		11.2W	25.2W	56.7W	88W	126W
Delivered output (Lumens)	— Standard	784 lm	1763 lm	3967 lm	6171 lm	8816 lm

<sup>\*</sup> Power Consumption and Delivered output values are based on 6500K CCT without any patterns.

# ORDERING CODE

	LP	AS		
TLS	Product	Engine	Rating	Size
TLS	LumiPano <b>LP</b>	Astra As	Indoor	2' x 2' <b>2x2</b>
			Outdoor	2' × 4' <b>2x4</b>
				4' × 4' <b>4x4</b>
				4' × 6' <b>4x6</b>
				4' x 8' <b>4x8</b>

Mounting	Frame color	сст	Output*	Control	Standard Patterns*
Suspended Threaded Rods SPT	Black BL	2200K <b>22K</b>	Premium (909 lm/sqf)*	0-10V <b>0/10</b>	Fall <b>FL</b>
Suspended Aircraft cables SPA	White WH	2700K <b>27K</b>		Remote RM	Hive <b>HV</b>
Recessed	Silver <b>NS</b>	3000K <b>30K</b>	Standard s (494 lm/sqf)*	Dali <b>DA</b>	LightSpeed <b>LE</b>
Surface SF	RAL RAL	3500K <b>35K</b>			Maze <b>M</b> z
		4000K <b>40K</b>			Mondrian MD
		5600K <b>56K</b>			StarStream <b>SS</b>
		6500K <b>65K</b>			Custom Design CD

<sup>\*</sup> Lm/sqf are calculated at LED source

\*See page 08

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## TECHNICAL SPECIFICATIONS

#### Diffuser

Material	Polycarbonate (PC)
Weight	Vary as per pattern
Fire classification	UL94
Light transmission	69%*

<sup>\*</sup>Without any pattern

#### Perforated Sheet Color

Material	Aluminum					
Standard colors	Black	White	Silver	RAL		

#### ■ Frame color

Material	Aluminum					
Standard colors	Black	White	Silver	RAL		

## Lighting

Ingress protection	IP22 (indoor) IP65 (outdoor)
CRI	> 90 (white LED)
LM80 *	> 36,000 hours
Operating temperature	-30 °C TO 80 °C

Note: \*LM80 Test is only applicable to white pixels.

Warranty*	5-year limited warranty for LED
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<sup>\*</sup> Warranty Terms and Conditions at www.tls-led.com/warranty

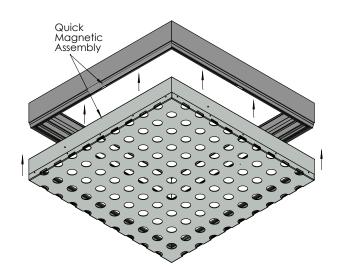
page O2 LP-AS-0925.1

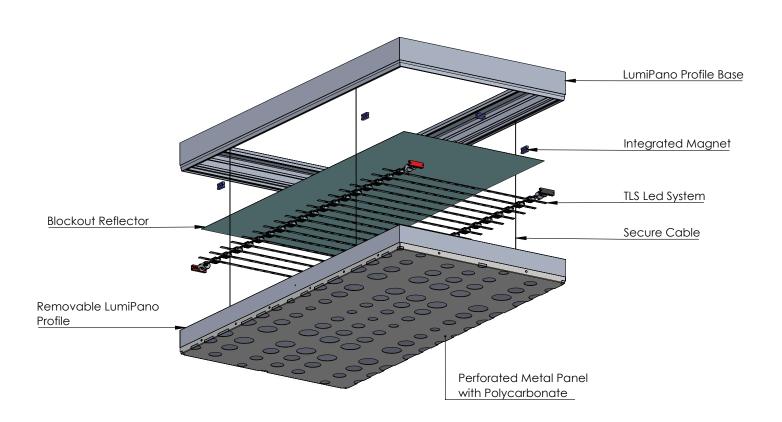




## **STRUCTURE**

The LumiPano magnetic profile clipping technology allows for easy disassembly of the luminous panel to gain access to the lighting engine and the plenum above. The reassembly is as easy as clicking the framing back into position to hold the frame securely in place.





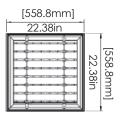
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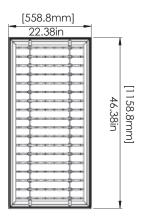


## SIZES PREMIUM

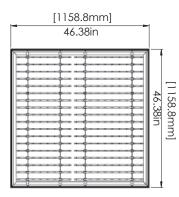
2'x2'



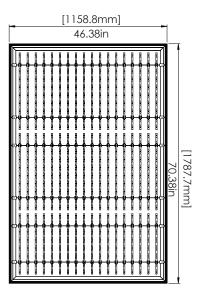
2'x4'



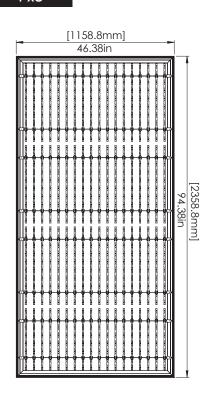
4'x4'



4'x6'



4'x8'



#### Weight Premium

Size	2'x2'	2'x4'	4'x4'	4'x6'	4'x8'
Kg	16.99	22.65	28.81	40.34	45.73
Lbs	37.46	49.94	63.52	88.94	100.82

<sup>\*</sup>At 50% of perforation.

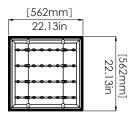
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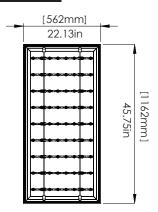


## SIZES STANDARD

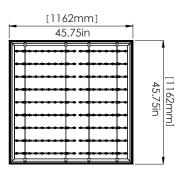
2'x2'



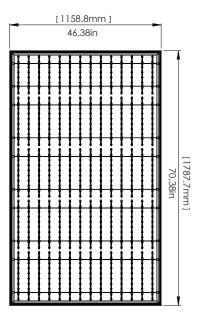
2'x4'



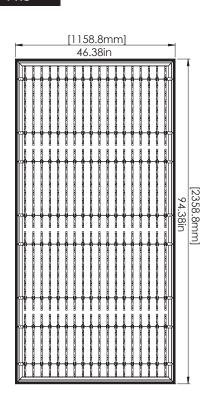
4'x4'



4'x6'



4'x8'



## Weight Standard

Size	2'x2'	2'x4'	4'x4'	4'x6'	4'x8'
Kg	15.79	20.55	26.61	39.34	43.73
Lbs	34.81	45.31	58.67	86.73	96.41

<sup>\*</sup>At 50% of perforation.



## LIGHTING PERFORMANCE AND EFFICIENCY

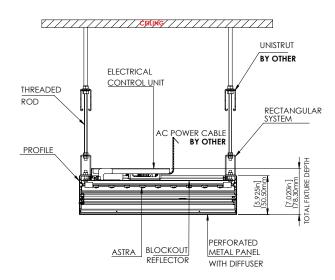
#### ■ Light transmission

Patterns	Percent of Perforation	Output
Fall	31%	2830
Hive	37%	3378
LightSpeed	24%	2191
Maze	33%	3013
Mondrian	16%	1461
StarStream	13%	1187

<sup>\*</sup>Lumens are calculated for 4'x8' fixture. Pattern will decrease the lumen output.

## MOUNTING OPTIONS

#### Suspended with Threaded Rods (SPT)



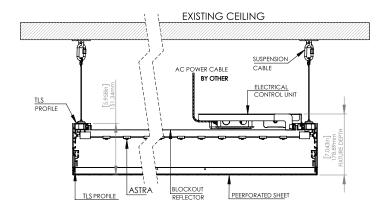
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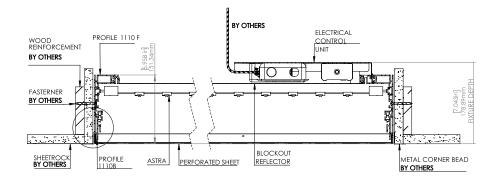
## MOUNTING OPTIONS

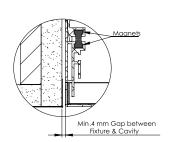
#### Suspended with Aircraft Cables (SPA)



Hooks to existing ceiling installed by others

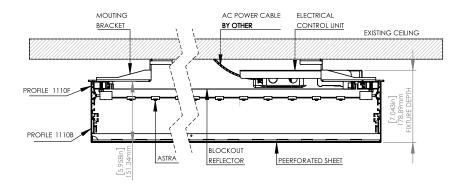
#### Recessed (RD)





- Cavity to be 4 mm over nominal
- Cavity to be minimum 7" (177.8 mm) deep

#### Surface (SF)



Note: Parts reference numbers are available upon request.

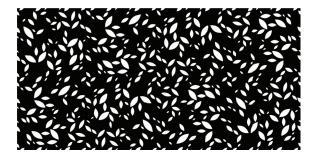
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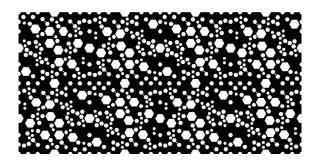


## **PATTERNS**

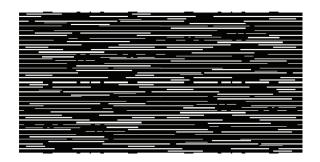
Fall (FL)



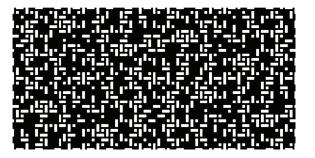
Hive (HV)



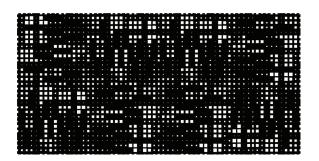
LightSpeed (LE)



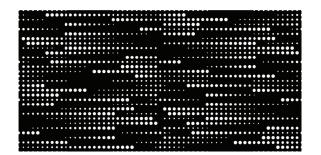
■ Maze (MZ)



Mondrian (MD)



StarStream (SS)



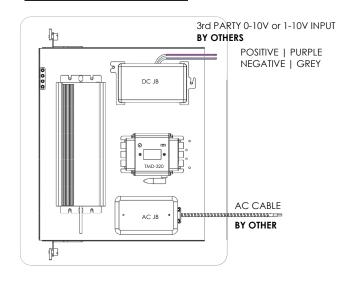
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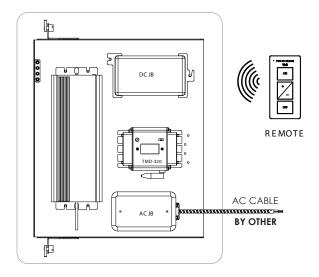


# CONTROL

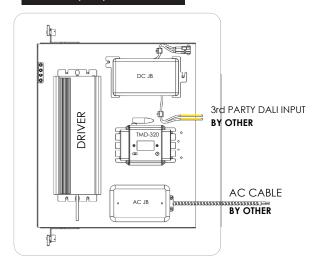
#### 0-10V (0/10)



#### RF Remote (RM)



## Dali (DA)



#### Electrical

Driver models	HLG-60-24A, HLG-100-24A, HLG-150-24A, HLG-240-24A, HLG-320-24A
Input voltage	90-305 V AC, 47-63 HZ
Output voltage	21-24 V DC

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